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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application Serial No. 10/821,771

Applicants: Seiler et al.

Group Art Unit: 3743

Filing Date: April 9, 2004

Title: HEAT EXCHANGER WITH FLOW CIRCUITING END CAPS

Attorney Docket No.: 60680-0793

Dear Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97

In connection with the U.S. patent application identified above, Applicant wishes to draw to the Examiner's attention the following art. This Statement is being filed under Section 1.97(b). Enclosed herewith is a List of References Cited by Applicant (PTO-1449).

A copy of each prior art reference which is not a U.S. patent or a U.S. published patent application is provided herewith. It is requested that each of these items be considered, made of record in the prosecution history of the application, and appear among the references cited on any patent to issue from the application.

A concise explanation of the relevance of each listed item not in the English language is also enclosed. With respect to some of the non-English references enclosed, English translations have been attached to the references.

Applicant believes that this Information Disclosure Statement is being submitted prior to the mailing date of the first Official Action in the above-identified matter, in accordance with 37 C.F.R. §1.97(b)(3). However, in the event that the first Office Action has already been mailed and Applicant has not yet received the Office Action,

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Applicant petitions for consideration of this Information Disclosure Statement and authorizes the Assistant Commissioner to deduct the fee of \$180.00 required under 37 C.F.R. §1.97(c)(2) and 37 C.F.R. §1.17(p) from Deposit Account No. 13-2400. The Assistant Commissioner is further authorized to deduct any additional fees required in connection with this Information Disclosure Statement from Deposit Account No. 13-2400 and to credit any overpayment to Deposit Account No. 13-2400.

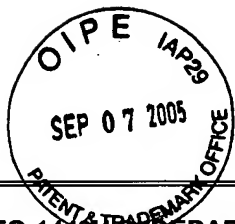
EXECUTED at Mississauga, Ontario, Canada, this 31st day of August, 2005.

Respectfully submitted,

By: Peter Hammond

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE				Attorney Docket No. 60680-0793		Serial No. 10/821,771	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets if Necessary)				Applicants: Seiler <i>et al</i>			
				Filing Date April 9, 2004		Group Art Unit: 3743	
U.S. PATENT DOCUMENTS							
Examine r Initial	Document Number	Date (MM/DD/YY)	Name	Class	Subclass	Filing Date if Appropriate (MM/DD/YY)	
	1,049,695	1/7/1913	Garrison				
	1,318,875	10/14/1919	Hutchinson				
	1,775,819	9/16/1930	Fischer <i>et al</i>				
	1,996,622	4/2/1935	Lambert				
	2,039,593	5/5/1936	Hubbuch <i>et al</i>				
	2,154,216	4/11/1939	Savage				
	2,547,668	4/3/1951	Simelaar				
	2,582,358	1/15/1952	Schoellerman				
	2,796,239	6/18/1957	Holmes <i>et al</i>				
	2,814,470	11/26/1957	Peterson				
	2,985,434	5/23/1961	Bering <i>et al</i>				
	3,024,003	3/16/1962	Specia <i>et al</i>				
	3,141,500	7/21/1964	Raskin				
	3,147,800	9/8/1964	Tadewald				
	3,650,310	3/21/1972	Childress				
	3,800,868	4/2/1974	Berkowitz				
	3,818,984	6/25/1974	Nakamura <i>et al</i>				
	4,002,200	1/11/1977	Raskin				
	4,072,188	2/7/1978	Wilson				
	4,085,728	4/25/1978	Tomchak				
	4,134,195	1/16/1979	Jacobsen <i>et al</i>				

Examine r Initial	Document Number	Date (MM/DD/YY)	Name	Class	Subclass	Filing Date if Appropriate (MM/DD/YY)
	4,361,184	11/30/1982	Bengtsson			
	4,478,277	10/23/1984	Friedman <i>et al</i>			
	4,574,876	3/11/1986	Aid			
	4,615,129	10/7/1986	Jackson			
	4,646,815	3/3/1987	Iwata			
	5,009,557	4/23/1991	Dessirier			
	5,028,989	7/2/1991	Naganuma <i>et al</i>			
	5,099,311	3/24/1992	Bonde <i>et al</i>			
	5,129,473	7/14/1992	Boyer			
	5,152,255	10/6/1992	Fukuda			
	5,159,529	10/27/1992	Lovgren <i>et al</i>			
	5,174,258	12/29/1992	Tanaka			
	5,205,348	4/27/1993	Tousignant <i>et al</i>			
	5,228,511	7/20/1993	Boquel <i>et al</i>			
	5,251,718	10/12/1993	Inagawa			
	5,273,386	12/28/1993	Luhm			
	5,285,347	2/8/1994	Fox <i>et al</i>			
	5,316,077	5/31/1994	Reichard			
	5,381,510	1/10/1995	Ford <i>et al</i>			
	5,423,376	6/13/1995	Julien <i>et al</i>			
	5,490,559	2/13/1996	Dinulescu			
	5,495,889	3/5/1996	Dubelloy			
	5,517,757	5/21/1996	Hayashi <i>et al</i>			
	5,586,614	12/24/1996	Kouchi <i>et al</i>			
	5,787,613	8/4/1998	Derome			
	5,829,517	11/3/1998	Schmid <i>et al</i>			
	5,884,588	3/23/1999	Ap			

Examine r Initial	Document Number	Date (MM/DD/YY)	Name	Class	Subclass	Filing Date if Appropriate (MM/DD/YY)
	5,901,037	5/4/1999	Hamilton <i>et al</i>			
	5,918,664	7/6/1999	Torigoe			
	5,957,230	9/28/1999	Harano <i>et al</i>			
	5,979,542	11/9/1999	Inoue			
	5,984,000	11/16/1999	Nakamura <i>et al</i>			
	5,992,552	11/30/1999	Eto			
	6,098,706	8/8/2000	Urch			
	6,227,290	5/8/2001	Nishishita <i>et al</i>			
	6,241,011	6/5/2001	Nakamura <i>et al</i>			
	6,293,338	9/25/2001	Chapman <i>et al</i>			
	6,305,463	10/23/2001	Salmonson			
	6,340,053	1/22/2002	Wu <i>et al</i>			
	6,438,840	8/27/2002	Tavi <i>et al</i>			
	6,729,389	5/4/2004	Ohashi			

FOREIGN PATENT DOCUMENTS

						Translation	
Examiner Initial	Document Number	Date	Country	Class	Sub-Class	Yes	No
	220,299	3/31/1942	CH				
	OS 2 201 559	7/19/1973	DE				
	33 28 229	10/10/1985	DE				
	0,805,328	11/5/1997	EP				
	0,807,756	11/19/1997	EP				
	0,826,874	3/4/1998	EP				
	0,890,810	1/13/1999	EP			X	
	0,907,061	4/7/1999	EP				
	1,189,606	10/5/1959	FR				
	2,748,800	11/21/1997	FR				
	2,769,082	4/2/1999	FR				
	2,772,838	6/25/1999	FR				
	2,774,462	8/6/1999	FR			X	
	2,774,463	8/6/1999	FR			X	
	2,774,635	8/13/1999	FR			X	
	2,785,377	5/5/2000	FR			X	
	61-243280	4/4/1986	JP				
	7-280,484	10/27/1995	JP				
	259,824	10/21/1926	UK				
	766,331	1/23/1957	UK				
	WO 03/059,598	7/24/2003	WO				
	WO 03/71213	8/28/2003	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		U.S. publication No. 2005/0115700(Martin <i>et al</i>) published June 2, 2005 and entitled BRAZED SHEETS WITH ALIGNED OPENINGS AND HEAT EXCHANGER FORMED THEREFROM
		U.S. publication No. 2005/0115701 (Martin <i>et al</i>) published June 2, 2005 and entitled LOW PROFILE HEAT EXCHANGER WITH NOTCHED TURBULIZER
		U.S. publication No. 2004/0069474 (Wu <i>et al</i>) published April 15, 2004 and entitled BAFFLED SURFACE COOLED HEAT EXCHANGER
		U.S. publication No. 2003/0164233 (Wu <i>et al</i>) published September 4, 2003 and entitled LOW PROFILE FINNED HEAT EXCHANGER
		U.S. publication No. 2003/0173068 (Davies <i>et al</i>) published September 18, 2003 and entitled FINNED PLATE HEAT EXCHANGER
		Fuel Cooling Needs for Advanced Diesel Engines by Michael Davies, John Burgers and Nick Kalman in SAE Technical Paper Series, May 19-22, 1997
EXAMINER		DATE CONSIDERED
<p>* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		

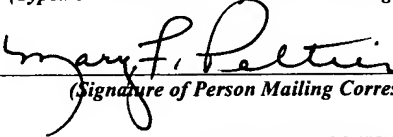


EXPLANATION OF NON-ENGLISH REFERENCE

- CH 220,299 This patent shows a rectangular, generally flat heat exchanger which has a serpentine member that extends between outer sidewalls. Vents appear to be located at opposite ends of the heat exchanger.
- DE OS 2,201,559 This reference teaches a flat type heat exchanger with rectangular sides and a folded internal wall that forms multiple passageways. These passageways are closed at their opposite ends by end plates. There are inlet and outlet openings on one side of the heat exchanger.
- DE 33 28 229 This patent appears to teach a heat exchanger for heat exchange between two fluids passing through parallel, alternating flat tubular structures. The passageways extend through an elongate boxlike structure that forms the external walls.
- FR 1,189,606 This patent shows a heat exchanger with a base plate and a shaped cover plate and a turbulizer arranged between these two plates. Inlet and outlet connections are attached to the cover plate.
- JP 7-280484 This patent illustrates a stacked plate heat exchanger that can be fitted with turbulizer members shown in Figure 15. On one side of a pair of plates forming a tubular member, there can be arranged a corrugated fin structure as shown in Figure 18.
- EP 0 805 328 This patent describes a heat exchanger that can be made from a series of side-by-side plates and frame members (see Figure 1).
- EP 0 807 756 This patent shows various plate and finned members for use with fuel lines for heat exchange.
- FR 2,748,800 A heat exchanger is shown having adjacent plates with angled slots therein that criss-cross to define flow channels therebetween.

- EP 0, 826,874 This patent shows a heat exchanger with fins on one side and a labyrinth of grooves on the opposite side. A flat plate is located adjacent the grooves to define flow passages between the two plates.
- EP 0 890 810 This patent shows a fuel cooler that has an extruded or continuously cast main body containing a plurality of longitudinal internal flow channels. This main body has open ends. Another member with cooling ribs or fins is attached to the main body. Finally, end pieces or closing elements are used to close off the open ends of the main body and make the fuel flow in series through the fluid channels in the main body. (An English translation of the reference is attached to the reference).
- FR 2 769 082 This patent describes a heat exchanger comprising a series of stacked plates which are mounted in a housing. A turbulizer structure is apparently arranged between the stacked plates.
- FR 2,772,838 The fuel system consists of a fuel tank, supplying fuel to the injectors, with a fuel reflow circuit to return the fuel to the tank. The excess fuel emerging from the injector, is passed through a heat exchanger, which uses the flow of incoming air to cool the fuel, which is then returned to the fuel tank, and the air is supplied to the engine inlet.
- EP 0 907 061 This patent describes a heat exchanger which has a low profile and which is made from two plates that are spaced apart a short distance and that are arranged between two tubular tanks for fluid flow. Short parallel fins extend upwardly and downwardly from these plates (see Figure 7). (An English translation of the reference is attached to the reference).
- FR 2,774,462 This patent shows a heat exchanger having a corrugated plate attached to a flat plate to define flow channels therebetween. (An English translation of the reference is attached to the reference).
- FR 2,774,463 This patent also shows a fuel cooler having a serpentine tube attached to a plate. The plate has cut-outs, tabs and ramps formed in it for directing air flow. (An English translation of the reference is attached to the reference).

- FR 2,774,635 This patent shows a fuel cooler consisting of a serpentine tube attached to a louvered plate. (An English translation of the reference is attached to the reference).
- FR 2,785,377 This patent shows a fuel cooler consisting of a serpentine tubular member mounted in a housing having a base and a cover. (An English translation of the reference is attached to the reference).
- JP 61-243280 See English Abstract attached to front of copy of Reference provided.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): SEILER ET AL.			Docket No. 60,680-793	
Application No. 10/821,771	Filing Date 04/09/2004	Examiner UNASSIGNED	Customer No. 26127	Group Art Unit 3743
Invention: HEAT EXCHANGER WITH FLOW CIRCUITING END CAPS				
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT, FORM PTO-1449, EXPLANATION OF NON-ENGLISH REFERENCES, and copies of 22 FOREIGN PATENT DOCUMENTS and 1 TECHNICAL PAPER</div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u>09/07/2005</u> <i>(Date)</i></p> <div style="text-align: center;"><p>MARY F. PELTIER <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p> <i>(Signature of Person Mailing Correspondence)</i></p><p>ED164797789US <i>("Express Mail" Mailing Label Number)</i></p></div>				
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